brother

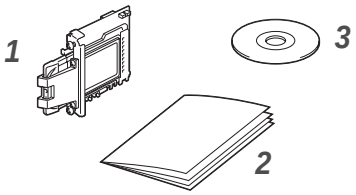
Wireless Print Server
for 802.11b and 802.11g

NC-7100w
Quick Setup Guide

This product is approved for use in the country of purchase only. Do not use this product outside the country of purchase as it may violate the wireless telecommunication regulations of that country.

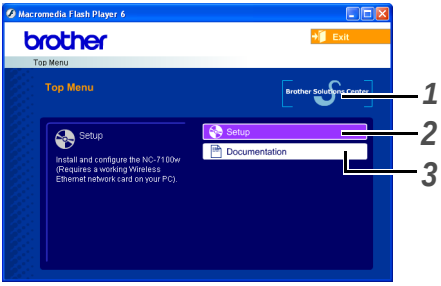
Please read this Quick Setup Guide before you install the NC-7100w and use the printer on the wireless network.
For more details about how to optimize the wireless print server, please refer to the NC-7100w Network User's Guide on the CD-ROM we have supplied with NC-7100w.
Keep this Quick Setup Guide and supplied CD-ROM in a convenient place for quick and easy reference at all times.

Carton Components



1. NC-7100w wireless print server
2. Quick Setup Guide
3. CD-ROM (including setup software and NC-7100w Network User's Guide)

What is supplied on the CD-ROM



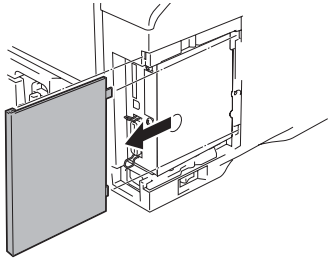
1. **Brother Solutions Center**
   The Brother Solutions Center (http://solutions.brother.com) is a one-stop resource for all your printer needs. Download the latest drivers and utilities for your printers, read the FAQs and troubleshooting tips, or learn about printer solutions.
2. **Setup**
   You can view the Wireless Setup Wizard which guides you through the print server configuration. You can also install the printer driver and BRAdmin Professional utility.
3. **Documentation**
   View NC-7100w Network User's Guide and the Quick Seup Guide in PDF format.

Setting up the Print Server

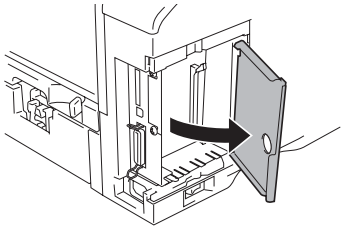
Step 1

Installing the Print Server

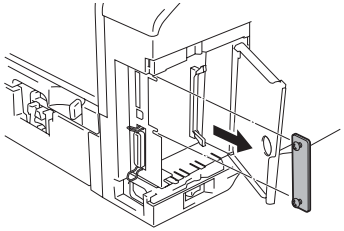
1. Turn off the printer power switch, and then unplug the printer if connected. Disconnect the interface cable from the printer.
2. Slide and remove the side cover of the printer.



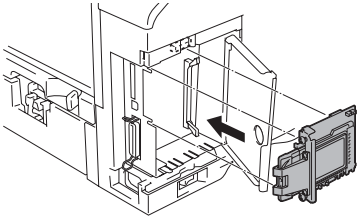
3. Open the interface access cover.



4. Loosen the two screws, and then remove the network cover plate.



5 Put the NC-7100w print server connector firmly into the connector of the main controller board by aligning the two screws to the groove of the printer, and then secure it with the two screws.

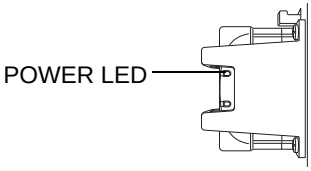


6 Close the interface access cover.

7 Put the side cover back on.

8 Plug the printer back in and then turn on the power switch.

9 Make sure that the POWER LED of the print server is on.



Step 2

Changing your Computer's Wireless Settings to configure the NC-7100w

Before you can use the printer in a wireless network, the NC-7100w wireless print server must be configured to match your network configuration.

To configure the NC-7100w from a wireless computer on your network, you must temporarily change your current wireless settings. Before changing the current wireless settings of your PC, we recommend you make a note of your current wireless network settings using the chart on the right. You will need to return to these settings at the end of Step 3.

We recommend you to contact your network administrator if you need assistance with your computers wireless settings.

Current wireless network settings of your computer

Item	Current Setting
Communication Mode: (Infrastructure / Ad-hoc)	
Network Name (SSID)	
Channel: (1-14)	
Encryption: (NONE / WEP / Other)	
Encryption Key Size and Type: (64 bit, 128 bit / ASCII, HEX / Other)	
Encryption Key:	

To communicate with the un-configured NC-7100w change your wireless PC settings to:

Communication mode: **Ad-hoc** (channel 11)
Network name (SSID): **SETUP** (case sensitive)
Encryption: **None**

For Windows® 98/Me/2000, Windows NT®4.0 Users

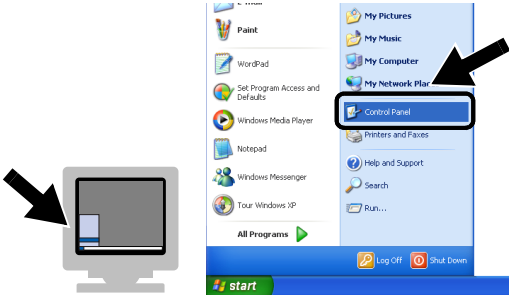
Please refer to your wireless card manufacturer instructions for changing the wireless settings. And then go to *Step 3 Configuring the Print Server*.

Continue to Step 3

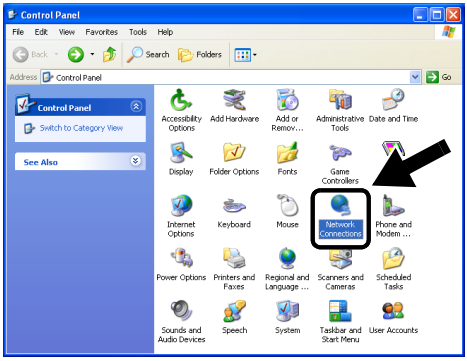
If you are using Windows® XP or Mac OS® X 10.1 to 10.3 and you are using its built in Wireless Ethernet capabilities, use the following steps for each Operating System.

For Windows® XP Users

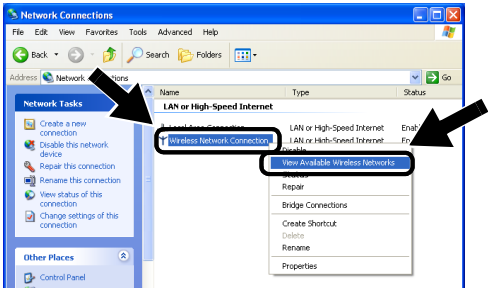
1 Click **Start** and then **Control Panel**.



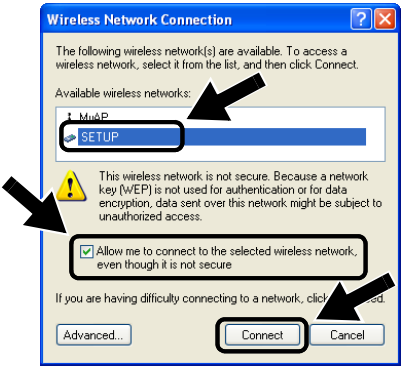
2 Click the **Network Connections** icon.



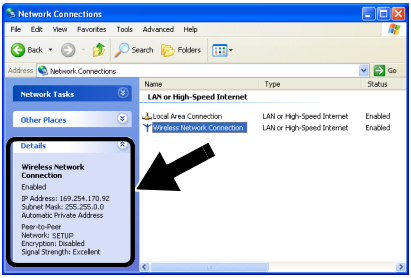
3 Select and right click **Wireless Network Connection**. Click **View Available Wireless Networks**.



4 You can see the Brother wireless print server in the **Available wireless networks** box. Select **SETUP** and check the **Allow me to connect...** check box. Click the **Connect** button.


Wireless Network Connection
The following wireless network(s) are available. To access a wireless network, select it from the list, and then click Connect.
Available wireless networks:
SETUP
This wireless network is not secure. Because a network key (WEP) is not used for authentication or for data encryption, data sent over this network might be subject to unauthorized access.
Allow me to connect to the selected wireless network, even though it is not secure
Advanced...
Connect
Cancel

5 Check the wireless network connection status. It may take a few minutes for the IP address to be shown on screen.



If the Brother wireless print server you want to choose is not listed, follow these steps:

1. *Move your printer with the wireless print server installed closer to your PC, or reorient the print server and try again.*
2. *Reset the print server back to its default factory setting and try again. See Other Information in this Quick Setup Guide for information how to reset to factory default setting.*
3. *Refer to Chapter 10 of the NC-7100w Network User's Guide on the CD-ROM we have supplied with NC-7100w.*

Continue to Step 3

For Mac OS® X 10.1 to 10.3 Users

1 Click the AirPort status icon and select **Open Internet Connect...**.

2 Click the Network tab to see the available wireless devices.
You can see the Brother wireless print server in the **Network** option.
Select **SETUP**.

3 Your wireless network is connected successfully.

If the Brother wireless print server you want to choose is not listed, follow these steps:

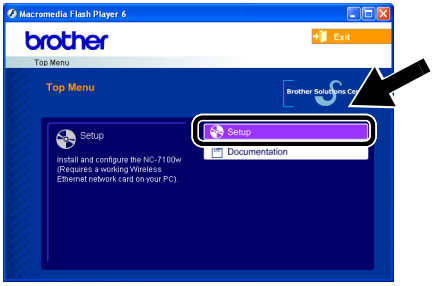
1. *Move your printer with the wireless print server installed closer to your PC, or reorient the print server and try again.*
2. *Reset the print server back to its default factory setting and try again. See Other Information in this Quick Setup Guide for information how to reset to factory default setting.*
3. *Refer to Chapter 10 of the NC-7100w Network User's Guide on the CD-ROM we have supplied with NC-7100w.*

Step 3

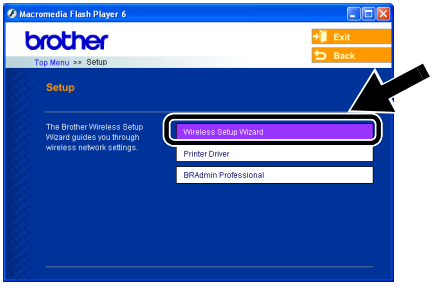
Configuring the Print Server

1 Insert the CD-ROM into your CD-ROM drive.
(For Windows® users) The opening screen will appear automatically.
(For Mac OS® X 10.1 to 10.3 users) Double-click the **NC7100w** icon on your Macintosh®, and then double-click the **Start Here** icon.

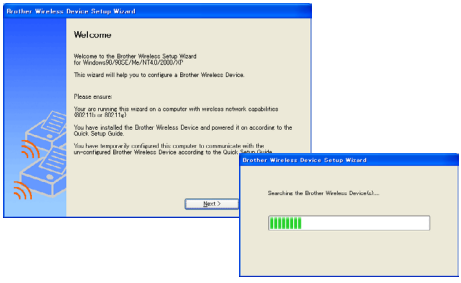
2 Click **Setup**.



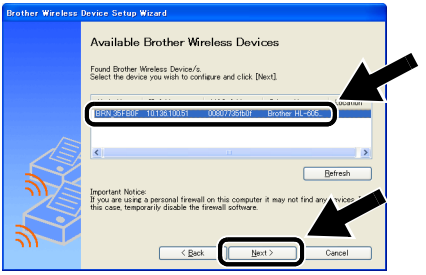
3 Click **Wireless Setup Wizard**.



4 Review the **Welcome** information and when you are sure you have completed the necessary tasks, click **Next**.


Brother Wireless Device Setup Wizard
Welcome
Welcome to the Brother Wireless Setup Wizard for Windows®98/98SE/Me/NT4.0/2000/XP
This wizard will help you to configure a Brother Wireless Device.
Please ensure
You are running this wizard on a computer with wireless network capabilities (802.11b or 802.11g).
You have installed the Brother Wireless Device and powered it on according to the Quick Setup Guide.
You have temporarily configured this computer to communicate with the un-configured Brother Wireless Device according to the Quick Setup Guide.
Next >
Brother Wireless Device Setup Wizard
Searching the Brother Wireless Device(s)....

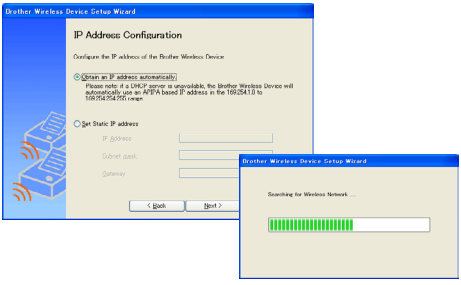
5 The search will display a list of found Brother Wireless Devices. Select the device you wish to configure and click **Next**.



6 If your network supports DHCP, choose **Obtain an IP address automatically** and the NC-7100w will automatically obtain IP address information from your network.

If you want to manually enter the IP address settings of the NC-7100w, choose **Set static IP address** and enter the necessary IP address settings for your network.

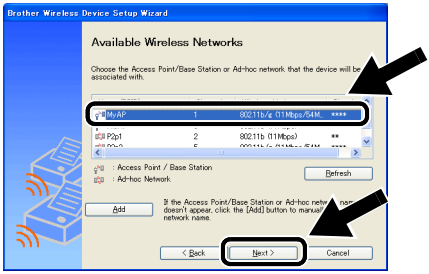
After making your selection, click **Next** and the Wizard will search for available wireless networks.


Brother Wireless Device Setup Wizard
IP Address Configuration
Configure the IP address of the Brother Wireless Device
Obtain an IP address automatically
Set Static IP address
IP Address
Subnet mask
Gateway
< Back
Next >
Brother Wireless Device Setup Wizard
Searching for Wireless Network....

The NC-7100w supports the Automatic Private IP Addressing (APIPA) protocol. If a DHCP server is unavailable, the NC-7100w will automatically assign an IP address from the range 169.254.1.0 to 169.254.254.255.

We recommend that you contact your network administrator if you are unsure about the correct IP address settings.

7 A list of the found Wireless Networks will be displayed. Select the Access Point/Base Station or Ad-hoc network you wish to associate the NC-7100w with and click **Next**.



*If the Access Point/Base Station or Ad-hoc network does not appear on the list, you can manually add it by clicking **Add**. Follow the on screen instructions for entering the SSID and Channel number.*

8 If your network is not configured for Authentication and Encryption, the screen shown will appear. To continue installation, click **OK**.

Go to **Step 10**.

Brother Wireless Device Setup Wizard
ATTENTION!
This Access Point/Base Station or Wireless Network is not secure. It does not have secured authentication and encryption.
Do you want to continue to setup?
OK
Cancel

9 When configuring your Brother Wireless device, you must ensure that it is configured to match the Authentication and Encryption settings of our existing wireless network. If your network is configured for Authentication and Encryption, choose the **Authentication Method** and **Encryption Mode** from the pull downs in each setting box. Then enter the **Network Key** and click **Next**.

Authentication Methods:

Authentication is used to identify each wireless device that is attempting to access the network.

Open System
Wireless devices are allowed access to the network without authentication.

Shared Key (Infrastructure mode only)
A secret pre-determined key is shared by all devices that will access the wireless network.

Encryption Methods:

Encryption is used to secure the data itself. The NC-7100w supports WEP encryption.

None
No encryption method is used.

WEP
By using WEP (Wired Equivalent Privacy), the data is transmitted and received with a secured key.

Network Key:

There are some rules for each security method:

Open System / Shared Key with WEP
Enter the WEP key that will be used to access your network. This key is a 64-bit or 128-bit value that must be entered in an ASCII or HEXADECIMAL format.

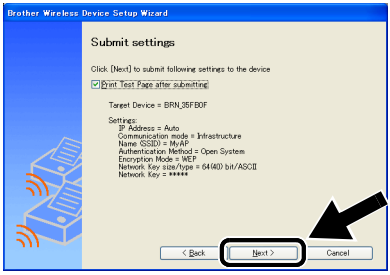
■ **64 (40) bit ASCII**
Uses 5 text characters.
e.g. “Hello” (this is case sensitive)

■ **64 (40) bit Hexadecimal**
Uses 10 digits of Hexadecimal data.
e.g. “71f2234aba”

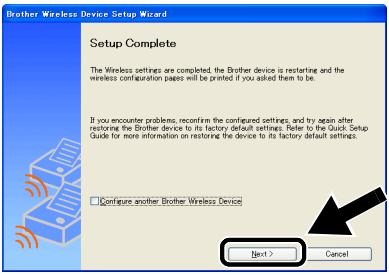
■ **128 (104) bit ASCII**
Uses 13 text characters.
e.g. “Wirelesscomms” (this is case sensitive)

■ **128 (104) bit Hexadecimal**
Uses 26 digits of Hexadecimal data.
e.g. “71f2234ab56cd709e5412aa3ba”

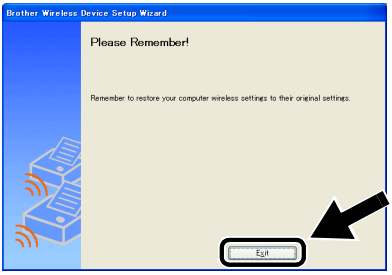
10 Click **Next** to submit the settings to the NC-7100w.


Brother Wireless Device Setup Wizard
Submit settings
Click [Next] to submit following settings to the device
Print Test Page after submitting
Target Device = BRN_35F80F
Settings:
IP Address = Auto
Communication mode = Infrastructure
Name (SSID) = MyAP
Authentication Method = Open System
Encryption Mode = WEP
Network Key size/type = 64(40) bit/ASCII
Network Key = *****
< Back
Next >
Cancel

11 When the Setup Complete screen appears, click **Next**.


Brother Wireless Device Setup Wizard
Setup Complete
The Wireless settings are completed, the Brother device is restarting and the wireless configuration pages will be printed if you asked them to be.
If you encounter problems, reconfirm the configured settings, and try again after restoring the Brother device to its factory default settings. Refer to the Quick Setup Guide for more information on restoring the device to its factory default settings.
Configure another Brother Wireless Device
Next >
Cancel

12 Using the information you recorded in Step 2, return the wireless settings of your computer back to their original settings. Click **Exit**.


Brother Wireless Device Setup Wizard
Please Remember!
Remember to restore your computer wireless settings to their original settings.
Exit

You can also configure the NC-7100w from the control panel of the printer, or using the BRAdmin utilities or a web browser. See Appendix B of the NC-7100w Network User’s Guide for more details.

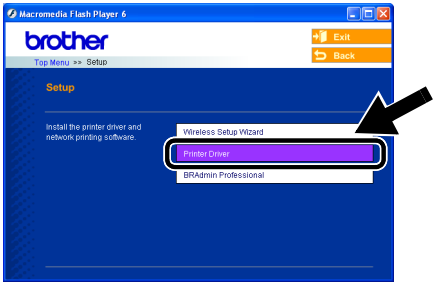
Step 4

Installing the Printer Driver and Network Print Software

You need to install the printer driver and network print software, and configure it for the wireless network connection of the printer. Please follow the steps below.

(For Mac OS® X 10.1 to 10.3 users) If you already have the printer driver installed in your computer, go to Step 3.

1 Click **Printer Driver**.



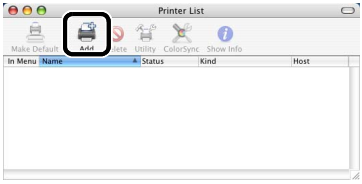
2 (For Windows® users) Refer to P19 to P23 ot the **Printer Quick Setup Guide** for the rest of the steps.
(For Mac OS® X 10.1 to 10.3 users) Follow the on-screen instructions.

OK! **For Windows® users: Setup is now complete.**

For Mac OS® X 10.1 to 10.3 Users

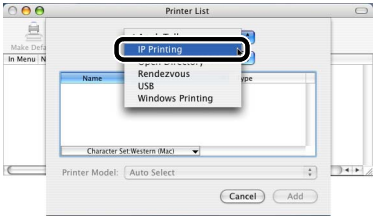
3 From the **Go** menu, select **Applications**. Open the **Utilities** folder, and then open the **Print Center** icon.

4 Click **Add**.

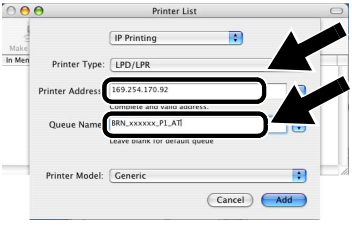


5 Select **IP Printing**.

For Mac OS X 10.2.4 or greater users:
If you want to connect your printer using Rendezvous, select **Rendezvous** and then the **HL-6050D_DN series**. Setup is now complete.



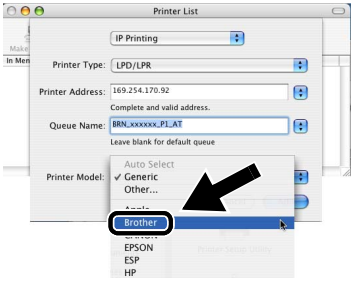
6 Enter the TCP/IP address of the printer into the **Printer's Address** box. If you are not using the default Queue, enter BRN_xxxxxx_P1_AT.



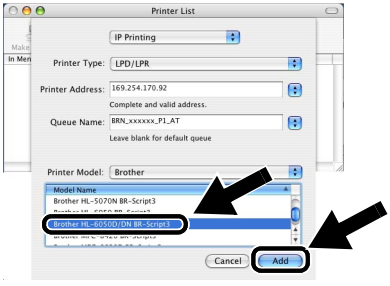
You can find the TCP/IP address by printing out the Network Configuration Page. See Other Information in this Quick Setup Guide for information how to print the Network Configuration Page.

xxxxxx is the last six digits of the MAC address. You can find the MAC address by printing out the Network Configuration Page. See Other Information in this Quick Setup Guide for information how to print the Network Configuration Page.

7 Select **Brother** from the **Printer Model** pull-down list.



8 Select **HL-6050D/DN BR-Script3**, and then click **Add**.

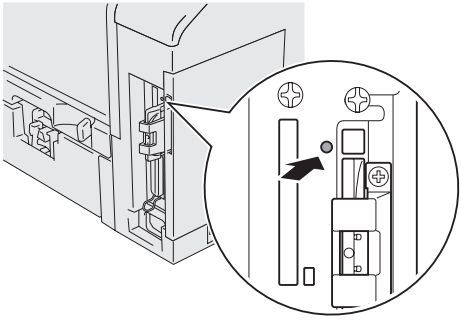


OK! **Setup is now complete.**

Other Information

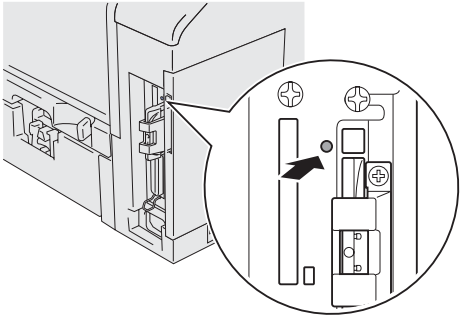
How to Print a Network Configuration Page

To print the Network Configuration Page, use a fine ball point pen to hold down the Network Test Button of the printer for **less** than 5 seconds.



How to Reset to Factory Default Setting

If you wish to reset the print server back to its default factory settings (resetting all information such as the password and IP address information), use a fine ball point pen to hold down the Network Test Button for **more** than 5 seconds.



Important Information: Regulations

Federal Communications Commission (FCC) Declaration of Conformity

Responsible Party:Brother International Corporation
100 Somerset Corporate Boulvard
Bridgewater, NJ 08807-0911, USA
Telephone: (908) 704-1700

declares, that the products

Product Name: Brother Network Card (BR-net)
Model Number: NC-7100w / NC-7100
(NC-7100 is a wireless LAN card which is installed in NC-7100w)

complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undersired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Important
Changes or modifications not expressly approved by Brother Industries, Ltd. could void the user's authority to operate the equipment.

Intel Copyright and License Information

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Printed in Japan
LM3842001